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Name of Person Signing Certificate: Holly Tuynman

Date 10/19/2003

Signature Holly Tuynman

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Applicant:

**Confirmation No.: 8887**

S. MARK HAUGLAND

Filed: February 28, 2002

Art Unit: 2858

Serial No.: 10/086,043

Examiner:

For: METHOD OF DETERMINING  
RESISTIVITY AND/OR  
DIELECTRIC VALUES OF AN  
EARTH FORMATION AS A  
FUNCTION OF POSITION  
WITHIN THE EARTH  
FORMATION

Docket No.: H052722.0029US0

## REPLY TO NOTICE UNDER 37 CFR 1.251

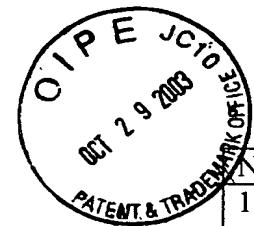
### **Box Reconstruction**

United States Patent and Trademark Office  
Washington, DC 20231

Dear Sir or Madam:

Enclosed for filing in the above-captioned application are the following documents necessary for Reconstruction:

- (1) Copy of Notice Under 37 CFR 1.251 – Pending Application; and
- (2) Correspondence between Applicant and the PTO.



No.	Name of Document	Date Filed/Mailed
1.	Patent Application (Specification 57 pgs., Drawings 13 pgs.) Assignment w/ Recordation Cover Sheet; Declaration and Power of Attorney; and Information Disclosure Statement w/ references	02-28-02
2.	Filing Receipt	04-04-02
3.	Supplemental Information Disclosure Statement	05-07-02
4.	Recorded Assignment (recorded 2-28-02)	05-07-02 rec'd
5.	2 <sup>nd</sup> Supplemental Information Disclosure Statement	01-27-03
6.	Submission of Formal Drawings	02-18-03
7.	Notice of Publication	08-28-03
8.	Notice Under 37 CFR 1.251 – Pending Application	10-02-03

Respectfully submitted,

  
George W. Jordan III Reg. No. 41,880  
ATTORNEY OF RECORD

Date: 10/10/03

AKIN, GUMP, STRAUSS, HAUER & FELD, L.L.P.  
711 Louisiana, Suite 1900  
Houston, Texas 77002  
Telephone: (713) 220-5800  
Facsimile: (713) 236-0822



The stamp of the PATENT OFFICE, placed hereon, acknowledges receipt of:

Serial No.: 10/086,043  
Applicant: S. Mark Haugland  
Atty Docket #: H052722.0029US0  
Client #: 052722.0029  
Attorney: LLH:GWJ:rmp

Inclusions:

- Supplemental Information Disclosure Statement
- Form 1449A/PTO (enclosing 3 references)
- Return Postcard
- Certificate of Mailing under 37 CFR § 1.10

Date Due: ---

Date Mailed: May 7, 2002  
VIA U.S. EXPRESS MAIL AIRBILL NO. EL827178128US

EL827178128US

The stamp of the PATENT OFFICE, placed hereon, acknowledges receipt of:

Serial No.: 10/086,043  
Applicant: S. Mark Haugland  
Atty Docket #: H052722.0029US0  
Client #: 052722.0029  
Attorney: LLH:GWJ:rmp



Inclusions:

- Supplemental Information Disclosure Statement
- Form 1449A/PTO (enclosing 3 references)
- Return Postcard
- Certificate of Mailing under 37 CFR § 1.10

Date Due: ---

Date Mailed: May 7, 2002  
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LLH:GWJ:zmp 052722.0029

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Name of Person Signing Certificate: Rochelle M. Pleasant

2-16-2003

Signature

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Applicant:

S. MARK HAUGLAND

Filed: February 28, 2002

Serial No. 10/086,043

For: METHOD OF DETERMINING  
RESISTIVITY AND/OR  
DIELECTRIC VALUES OF AN  
EARTH FORMATION AS A  
FUNCTION OF POSITION  
WITHIN THE EARTH  
FORMATION

§ Confirmation No.: 8887

§ Art Unit 2858

§ Examiner:

§ Docket No. H052722.0029US0

**SUBMISSION OF FORMAL DRAWINGS**

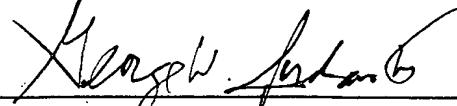
Commissioner for Patents  
Washington, D.C. 20231

**Attn: Official Draftsperson**

Dear Sir:

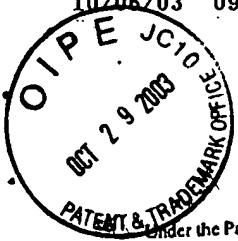
Applicant herewith submits formal drawings in the above-identified application.

Respectfully submitted,

  
George W. Jordan III, Reg. No. 41,880  
ATTORNEY OR AGENT OF RECORD

Date: 2/18/03

AKIN, GUMP, STRAUSS, HAUER & FELD, L.L.P.  
711 Louisiana, Suite 1900  
Houston, Texas 77002  
Telephone: (713) 220-5800  
Facsimile: (713) 236-0822



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## FORM PTO-2053-B (REV. 11/2000)

Approved for use through 10/10/2004. OMB 0651-0031

U.S. Patent and Trademark Office; U. S. DEPARTMENT OF COMMERCE

In re Application of:

S. Mark Haugland

Application No.:

10/086,043

Filing Date:

02/28/2002

Title:

Method of Determining Resistivity and/or Dielectric  
Values of an Earth Formation as a Function of  
Position Within the Earth Formation

Direct to:

Box Reconstruction  
United States Patent and Trademark Office  
Washington, DC 20231

## NOTICE UNDER 37 CFR 1.251 - Pending Application

## Statement (check the appropriate box):

The copy submitted with this reply is a complete and accurate copy of applicant's record of all of the correspondence between the Office and the applicant for the above-identified application (except for U.S. patent documents), and applicant is not aware of any correspondence between the Office and applicant for the above-identified application that is not among applicant's records.

The copy of the paper(s) listed in the notice under 37 CFR 1.251 is/are a complete and accurate copy of applicant's record of such paper(s).

The papers produced by applicant are applicant's complete record of all of the correspondence between the Office and the applicant for the above-identified application (except for U.S. patent documents), and applicant is not aware of any correspondence between the Office and the applicant for the above-identified application that is not among applicant's records.

Applicant does not possess any record of the correspondence between the Office and the applicant for the above-identified application.

Date:

10/29/03

Signature

A handwritten signature in black ink that appears to read "George W. Jordan".

George W. Jordan, Reg. No. 41,880

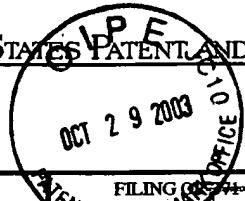
Typed or printed name

A copy of this notice should be returned with the reply.

**Burden Hour Statement:** This collection of information is required by 37 CFR 1.251. The information is used by the public to reply to a request for copies of correspondence between the applicant and the USPTO in order to reconstruct an application file. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This form is estimated to take 60 minutes to complete. This time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



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APPLICATION NUMBER	FILING OR 14490 DATE	RECEIVED	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/086,043	08/28/2002	S	Mark Haugland Akin, Gump, Strauss, Hauer & Feld, L.L.P.	H052722.0029US0
			SEP 10 2003	CONFIRMATION NO. 8887
			Docket by _____ Action _____ Due date _____	OC000000010780047

**Title:** Method of determining resistivity and/or dielectric values of an earth formation as a function of position within the earth formation

**Publication No.** US-2003-0163258-A1

**Publication Date:** 08/28/2003

### NOTICE OF PUBLICATION OF APPLICATION

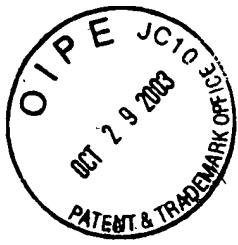
The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at [www.uspto.gov](http://www.uspto.gov). The direct link to access the publication is currently <http://www.uspto.gov/patft/>.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Office of Public Records. The Office of Public Records can be reached by telephone at (703) 308-9726 or (800) 972-6382, by facsimile at (703) 305-8759, by mail addressed to the United States Patent and Trademark Office, Office of Public Records, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at [www.uspto.gov](http://www.uspto.gov) using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently <http://pair.uspto.gov/>. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at (703) 305-3028.



The stamp of the **PATENT OFFICE**, placed hereon, acknowledges receipt of:

Serial No.: 10/086,043  
Applicant: S. Mark Haugland  
Atty Docket #: H052722.0029US0  
Client #: 600131.0008  
Attorney: LLH:GWJ:rmp

Inclusions:

- Submission of Formal Drawings (13 sheets)
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Date Due: --  
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Serial No.: 10/086,043  
Applicant: S. Mark Haugland  
Atty Docket #: H052722.0029US0  
Client #: 600131.0008  
Attorney: LLH:GWJ:rmp

Inclusions:

- Submission of Formal Drawings (13 sheets)
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F02  
T22

142

142

<b>FEE TRANSMITTAL</b> for FY 2002		<b>Complete if Known</b>				
<i>Patent fees are subject to annual revision</i>		<i>Application Number</i>				
		<i>Filing Date</i>	February 28, 2002			
		<i>First Named Inventor</i>	S. MARK HAUGLAND			
		<i>Examiner Name</i>				
		<i>Group / Art Unit</i>				
<b>Total Amount of Payment</b>	\$8942.00	<i>Attorney Docket No.</i>	H052722.0029US0			

**METHOD OF PAYMENT** (check one)

1.  The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:  
Deposit Account No.: 16-2435  
Deposit Account Name:  
Akin, Gump, Strauss, Hauer & Feld, L.L.P.

Charge any additional Fee Required Under 37 CFR §§ 1.16 & 1.17

Applicant claims small entity status.  
See 37 CFR 1.27

2.  Payment Enclosed:  Check  
 Money Order  
 Credit Card  
 Other

**FEE CALCULATION****1. Basic Filing Fee**

Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid
101	\$740	201	\$370	Utility Filing Fee	\$ 740
106	\$330	206	\$165	Design Filing Fee	\$
107	\$510	207	\$255	Plant Filing Fee	\$
108	\$740	208	\$370	Reissue Filing Fee	\$
114	\$160	214	\$ 80	Provisional Filing Fee	\$
				<b>Subtotal (1)</b>	<b>\$740.00</b>

**2. Extra Claim Fees**

Claims	Extra	Fee (below)	Fee Paid
Total	29 -20** =	9	x \$ 18 = \$ 162
Indep.	2 - 3*** =	0	x \$ = \$
Multiple Dependent			\$

\*\*or number previously paid, if greater.

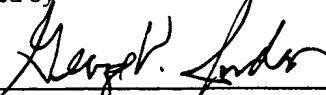
For Reissues, see below

Large Entity Fee (\$)	Small Entity Fee (\$)	Fee Description
\$ 18	\$ 9	Claims in excess of 20
\$ 84	\$ 42	Independent claims in excess of 3
\$ 280	\$ 140	Multiple dependent claim, if not paid
\$ 84	\$ 42	**Reissue independent claims over original patent
\$ 18	\$ 9	**Reissue claims in excess of 20 and over original patent
		<b>Subtotal (2)</b>
		<b>\$162.00</b>

**FEE CALCULATION (continued)****3. Additional Fees**

Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid
105	\$ 130	205	\$ 65	Surcharge - late fee or oath	\$
127	\$ 50	227	\$ 25	Surcharge - late provisional filing fee or cover sheet	\$
147	\$2,520	147	\$2,520	Request for Reexamination	\$
112	\$920*	112	\$920*	Requesting publication of SIR prior to Examiner action	\$
113	\$1840*	113	\$1840*	Requesting publication of SIR after Examiner action	\$
115	\$ 110	215	\$ 55	Extension for reply within first month	\$
116	\$ 400	216	\$ 200	Extension for reply within second month	\$
117	\$ 920	217	\$ 460	Extension for reply within third month	\$
118	\$1,440	218	\$ 720	Extension for reply within fourth month	\$
128	\$1,960	228	\$ 980	Extension for reply within fifth month	\$
119	\$ 320	219	\$ 160	Notice of Appeal	\$
120	\$ 320	220	\$ 160	Filing a brief in support of an appeal	\$
121	\$ 280	221	\$ 140	Request for oral hearing	\$
140	\$ 110	240	\$ 55	Petition to revive - unavoidable	\$
141	\$1,280	241	\$ 640	Petition to revive - unintentional	\$
142	\$1,280	242	\$ 640	Utility issue fee (or reissue)	\$
143	\$ 460	243	\$ 230	Design issue fee	\$
144	\$ 620	244	\$ 310	Plant issue fee	\$
122	\$ 130	122	\$ 130	Petitions to the Commissioner	\$
123	\$ 50	123	\$ 50	Petitions related to provisional applications	\$
126	\$ 180	126	\$ 180	Submission of Information Disclosure Statement	\$
581	\$ 40	581	\$ 40	Recording each patent assignment per property (times number of properties)	\$40
146	\$ 740	246	\$ 370	Filing a submission after final rejection (37 CFR 1.129(a))	\$
179	\$ 740	279	\$ 370	Request for Continued Examination (RCE)	\$
169	\$ 900	169	\$ 900	Request for expedited examination of a design application	\$
Other fee (specify): _____					
Other fee (specify): _____					
* Reduced by Basic Filing Fee Paid					
<b>Subtotal (3)</b>					
\$40.00					

Submitted by



George W. Jordan III, Reg. No. 41,880

Date: 2/28/02

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PTO/SB/05 (08-00)

<b>UTILITY PATENT APPLICATION TRANSMITTAL</b> (Only for new nonprovisional applications under 37 CFR 1.53(b))		<i>Attorney Docket No.</i> <b>H052722.0029US0</b>
<i>First Named Inventor or Application identifier</i>		<b>S. MARK HAUGLAND</b>
<b>ADDRESS TO:</b> Assistant Commissioner of Patents Box Patent Application Washington, DC 20231		<i>Title</i> <b>METHOD OF DETERMINING RESISTIVITY AND/OR DIELECTRIC VALUES OF AN EARTH FORMATION AS A FUNCTION OF POSITION WITHIN THE EARTH FORMATION</b>
		<i>Express Mail No.</i> <b>EL827178471US</b>

#### APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents

1.  Fee Transmittal Form PTO/SB/17 (*submit in duplicate*)
2.  Applicant claims small entity status. *See 37 CFR 1.27.*
3.  Specification [Total Pages: 57]
4.  Drawing(s) (35 USC 113) [Total Sheets: 13]
5.  Oath or Declaration [Total Pages: 1]
  - a.  Newly executed (original or copy)
  - b.  Copy from a prior application (37 CFR 1.63(d))  
*(for continuation/divisional with No. 17 completed)*  
*[Note No. 6 below]*
6.  Incorporation By Reference (*useable if No. 5b is checked*)  
*The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under No. 5b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.*
7.  Nucleotide and/or Amino Acid Sequence Submission  
*(if applicable, all necessary)*
  - a.  Computer Readable Copy (CRF)
  - b.  Specification Sequence Listing on:
    - i.  CD-ROM or CD-R (2 copies); or
    - ii.  paper
  - c.  Statement verifying identity of above copies
8.  Application Data Sheet. *See 37 CFR 1.76*
- 

19. If a CONTINUING APPLICATION, check appropriate blank and supply the requisite information:

Continuation  
 Divisional  
 Continuation-in-part (CIP)

of prior application No.: /  
Prior Application Information:  
Examiner \_\_\_\_\_ Group Art Unit: \_\_\_\_\_

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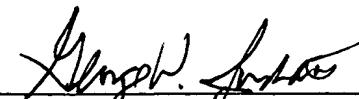
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PATENT TRADEMARK OFFICE

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George W. Jordan III, Reg. No. 41,880

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Serial No.: Unknown  
Applicant: S. Mark Haugland  
Atty Docket #: H052722.0029US0  
Client #: 052722.0029  
Attorney: LLH:GWJ:rmp

Inclusions:

- Application for Patent (57 pages)
- Informal Drawings (13 sheets)
- Declaration and Power of Attorney by Assignee
- Assignment w/Recordation Cover Sheet (3 pages)
- Information Disclosure Statement w/PTO Form 1449A (w/29 references)
- Utility Patent Application Transmittal
- Fee Transmittal for FY 2002 (in duplicate) w/firm check for \$942.00
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Serial No.: Unknown  
Applicant: S. Mark Haugland  
Atty Docket #: H052722.0029US0  
Client #: 052722.0029  
Attorney: LLH:GWJ:rmp

jc971 U.S. PTO

10/086043



02/28/02

MAR 15 2002

Inclusions:

- Application for Patent (57 pages)
- Informal Drawings (13 sheets)
- Declaration and Power of Attorney by Assignee
- Assignment w/Recordation Cover Sheet (3 pages)
- Information Disclosure Statement w/PTO Form 1449A (w/29 references)
- Utility Patent Application Transmittal
- Fee Transmittal for FY 2002 (in duplicate) w/firm check for \$942.00
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Date Due: ----

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Time In <i>19 2 2002</i>	<input type="checkbox"/> Military <input type="checkbox"/> 2nd Day <input type="checkbox"/> 3rd Day	
Weight <i>1.5 lbs</i>	Int'l Alpha Country Code <i>0</i>	COD Fee <input type="checkbox"/>
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WASHINGTON DC 20231-9999

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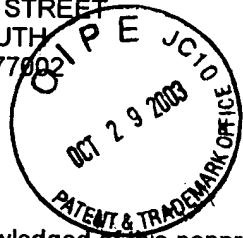


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APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
10/086,043	02/28/2002	2858	902	H062722.0029US0	13	29	2

01200  
 AKIN, GUMP, STRAUSS, HAUER & FELD  
 711 LOUISIANA STREET  
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 HOUSTON, TX 77002



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Docket by	<i>JKW</i>
Action	<i>TM</i>
Due date	<i>4/10/02</i>

CONFIRMATION NO. 8887

## FILING RECEIPT



\*OC000000007795261\*

Date Mailed: 04/04/2002

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### Applicant(s)

S. Mark Haugland, Houston, TX;

### Domestic Priority data as claimed by applicant

### Foreign Applications

If Required, Foreign Filing License Granted 04/04/2002

Projected Publication Date: 08/28/2003

Non-Publication Request: No

Early Publication Request: No

### Title

Method of determining resistivity and/or dielectric values of an earth formation as a function of position within the earth formation

### Preliminary Class

324

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Serial No.: 10/086,043  
Applicant: S. Mark Haugland  
Atty Docket #: H052722.0029US0  
Client #: 600131.0008  
Attorney: LLH:GWJ:rmp

Inclusions:

- Second Supplemental Information Disclosure Statement
- PTO Form 1449A (enclosing 5 references)
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